



Program Highlights

Benefits/Cost Savings

- Cost savings: \$16,500
- 60% recycling rate for construction phase
- 664 tons recycled
- 1,689 tons of material reused

Materials Recycled

- 86 tons of wood waste
- 10 tons of cardboard
- 150 tons of CMUs and concrete
- 15 tons misc. metals
- 135 tons of drywall
- tons of landclearing debris

Recycled-Content

Material Used

- 1,500 tons of recycled asphalt in paving
- 12 tons of recycled carpet in wheel stops
- 142 tons of recycled tires in astro-turf pad
- 35 tons of recycled gypsum in drywall

Project Statistics

- Size: 250,000 square feet
- Location: Kent, WA

General Contractor

Lease, Crutcher, Lewis
107 Spring St., Suite 500
Seattle, WA 98104
(206) 622-0500

Architect

Burr Lawrence Rising+Bates P.S.
Tacoma Financial Center
Tacoma, WA 98402-3519
(253) 627-5599



The new Kentlake High School will open in the Fall of 1997. It will provide a world-class learning environment for students and a host of other community needs.

School Gets High Marks for Sustainability

Why Build Two When One Will Do?

Picture a soaring room lit by skylights. Follow two rounded staircases flooded with more natural light from a wall of glass block window that lead to overhanging balconies. Does this sound like a high school lunchroom? It does if you're a student at the new Kentlake High School. The new school looks like a convention hall for good reason. It was built to serve not only its 1,600 students, but to host conferences and professional theater groups. Serving these multiple community needs reduces infrastructure and conserves public dollars and resources.

"We saw this as an opportunity to create a building that reflects the best in education, and provides the community with a multi-use building that will last."

— Kit Burns, Architect,
Burr Lawrence Rising+Bates P.S.

Durability Can Be Appealing

Most schools are designed to be substantially renovated in 25 years. The architects, Burr Lawrence Rising+Bates, and the Kent School District set out to build a school expected to last at least 50 years before needing renovation. They selected materials that were both durable and

aesthetically appealing, such as a blend of brick and a two-tone concrete block for the walls. The block has a ground face giving it a granite-like texture.

Designing for Multiple Uses

A challenge architect Kit Burns faced was making the school auditorium, space that traditionally sits empty many days, into more useable space. The solution: of the 700 total seats, two small sections are set on giant turntables that can be rotated to form individual classrooms each containing 125 students. The auditorium also accommodates the needs of professional theater performances creating a space that serves broader community needs.

Closing the Loop

Nearly 1,700 tons of recycled material was used in the building, including parking wheel stops made of recycled carpet, a paving under-course made of ground-up asphalt from demolished roads, and a pad for the outdoor athletic field made from recycled tires. Lease Crutcher Lewis, the general contractor on the job, instituted a policy to reduce waste whenever feasible. Their efforts paid off, reducing their waste at least 60% by recycling 664 tons of wood, metal, drywall, concrete, and CMUs.

Protecting the Environment

The school district purchased a special pervious surface for tracks and fields to protect groundwater and waterways. Kit Burns, the project architect, also organized a large-scale volunteer effort to salvage trees and shrubs from the site. These valuable trees and shrubs were then used by King County's Water and Land Resources Division to restore fish habitat in streams and for erosion-control projects throughout the County. Over 70 large trees were salvaged from the site.

King County Offers Free Technical Assistance to Construction, Demolition and Landclearing Contractors

- Assistance developing comprehensive job-site waste management plans
- *Construction/Recycling Directory* - a listing of area recyclers
- *Contractors' Guide to Preventing Waste and Recycling* - a how-to guide
- Case studies highlighting successful job-site programs
- *WasteSpec** - a manual of model specifications for construction waste reduction, reuse and recycling. This manual provides architects and engineers model specification language for job-site recycling.
- Examples of contract language specifying recycling and waste management requirements from job-sites throughout King County
- Green Works/Construction Works public recognition program

* Developed by Triangle J Council of Governments; cost \$25.00

**Call the King County Solid Waste Division
at (206) 296-8480 for assistance.**

For more information:

King County

*King County Construction
Recycling Directory*
and other technical assistance:
Theresa Koppang
*King County
Solid Waste Division*
(206) 296-8480

City of Seattle

*Business and Industry
Recycling Venture*
(206) 389-7304

Owner

Clint Marsh,
Project Manager
Kent School District

General Contractor

Mike Finney,
Superintendent
Lease, Crutcher, Lewis
(206) 622-0500

Architect

Kit Burns,
Project Architect
Burr Lawrence Rising+Bates P.S.
(253) 627-5599

Case Study Consultants

O'Brien & Company
(206) 842-8995

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